

ABSTRACT

1 A device for expressing milk from one or more breasts has
2 at least one, and preferably two expressors and a pump. The expressors
3 each have a cup for fitting on the breasts and a cup outlet to which a
4 vacuum created by the pump can be connected. In use, the vacuum
5 expresses the milk from the breast. The device has a vacuum adjustment
6 and a vacuum release on each expressor. In this manner, the vacuum can
7 be individually adjusted and released at the expressors. The pump includes
8 a movable diaphragm in a chamber. The diaphragm is oscillated back and
9 forth by a linear actuator motor such as a stepper motor. The motor has a
10 shaft which moves back and forth axially, for direct linkage to the
11 diaphragm, so that the size and weight of the pump are reduced. The
12 expressors have a removable cap and removable cup assembly, and the cup
13 assembly has a positively sealed liner, for easy disassembly and cleaning.